Drainage

major drainage divide extending through the middle of Utah separates the state into two principal drainage systems, the Great Basin and Colorado River. These two systems are notably different in that the Great Basin is a region of internal drainage while the Colorado River empties eventually into the Gulf of California. The divide between these two drainage areas extends generally through the High Plateaus and across the western end of the Uinta Mountains. In the southwestern corner of the state this divide trends westward into Nevada.

There are two large terminal lakes within the Utah portion of the Great Basin. One of them, the Great Salt Lake, is a true inland sea having a high salt content and no outlet. The second, Sevier Lake, is a playa which is dry most of the time due to the extensive use of its tributary waters for irrigation. Only during heavy precipitation will Sevier Lake receive significant runoff.

Bear River Drainage The Great Salt Lake receives runoff from three major river systems: the Bear, Weber, and Jordan. The Bear River, having a total length of over 300 miles, originates in Utah on the north flank of the western portion of the Uinta Mountains. It flows northward into Wyoming and Idaho, bends sharply around the northernmost extension of the Wasatch Range, then heads south and eventually enters Utah's Cache Valley, where its major tributaries are Little Bear River, Blacksmith Fork, and Logan River. Bear Lake receives runoff from the eastern flank of the Bear River Range as well as mountains and hills to the south and east. It drains northward into the Bear River in ldaho.

Weber River Drainage The Weber River has its headwaters on the northwestern flank of the Uinta Mountains and receives runoff from all of Morgan County and much of Weber and Summit counties. Its major tributary, the Ogden River, drains Ogden Valley and the eastern portion of Weber County.

southern portion of the Sevier Valley and the Markagunt Plateau. Its major tributaries include the East Fork, which heads high up on the Paunsaugunt Plateau just to the west of Bryce Canyon National Park; Otter Creek, which drains the western slope of the Fish Lake Plateau; and the San Pitch River, which drains Sanpete Valley and the western slope of the Wasatch Plateau. The Sevier River flows northward through the Sevier Valley, continues west of the Gunnison Plateau, and, after cutting through the Canyon Mountains, bends southward past Delta into Sevier Lake.

Colorado River Drainage The Colorado River drainage system is dominated by the Colorado River and its major tributary, the Green. The Green River originates in Wyoming's Wind River Mountains, flows through Flaming Gorge, dips into the state of Colorado where it is joined by the Yampa River, and then turns southwest and south into the Canyonlands. Major tributaries of the Green River are the Duchesne and Uinta rivers, draining the Uinta Mountains; the White River, draining Colorado's Roan Plateau; the Price River, draining the Wasatch Plateau; and the San Rafael River, draining the San Rafael Swell.

Above its confluence with the Green, the Colorado River has several small, intermittent tributaries, the largest being the Dolores River with its headwaters in Colorado. Below the confluence three major tributaries, as well as numerous intermittent ones, are found. The Dirty Devil River has two major branches-Muddy Creek and the Fremont River-which drain portions of the San Rafael Swell and the eastern flank of the High Plateaus. The Dirty Devil now joins the Colorado by flowing into Lake Powell. The Escalante River also empties into Lake Powell after receiving runoff from the eastern flank of the High Plateaus. The San Juan has its headwaters in the Four Corners area and most of its runoff is from Colorado. The San Juan also empties into Lake Powell, and its canyon forms one of the lake's major arms.

River and Goose Creek mountains. Although this area occupies only a small portion of the state, its runoff eventually flows into the Columbia River, the primary drainage system of the Northwest.

Reservoirs A system of dams and reservoirs developed in Utah has become an integral part of the state's economy. This system involves practically every perennial stream in the state and provides water storage, flood control, electrical power production, and recreation. Practically every city and farm in Utah is dependent upon dams to guarantee a year-round supply of water for domestic, industrial, and agricultural use. Glen Canyon Dam, which contains Lake Powell, also has the function of regulating and guaranteeing the flow of water from the Upper Colorado River Basin states to the lower basin states. Both the Lake Powell and Flaming Gorge reservoirs are of national importance and have been integrated into the National Park system as national recreation areas. Lake Powell has a capacity of 25 million acre-feet and extends 186 miles up the Colorado River. Flaming Gorge has a capacity of 3.7 million acre-feet and extends 37 miles into Wyoming. For reference, see Bibliography, number 320

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| | Reservoirs | |
|-----|------------------|----------------------------|
| - | Name | Capacity (In acre-feet) |
| - | Bottle Hollow | 11,300 |
| - 1 | Causey | 6,900 |
| _ | — Deer Creek | 149,700 |
| | East Canyon | 48,100 |
| 1 | Echo | 73,900 |
| | Flaming Gorge | 3,749,000 |
| | Gunnison | 18,200 |
| 1 | Huntington North | 3,900 |
| | Hyrum | 15,300 |
| | Joe's Valley | 54,600 |
| | Lake Powell | 25,002,000 |
| | Lost Creek | 20,000 |
| | Mill Site | 16,700 |
| | Minersville | 23,300 |
| | Moon Lake | 35,800 |
| | Otter Creek | 52,500 |
| | Pineview | 110,100 |
| | Piute | 71,800 |
| | Porcupine | 11,300 |
| | Rockport | 60,900 |
| | Scofield | 65,800 |
| | Settlement Creek | 1,200 |
| | Sevier Bridge | 236,000 |
| | Starvation | 165,300 |
| | Steinaker | 33,700 |
| | Strawberry | 270,000 |
| | Vernon Creek | 600 |

Willard Bay

Woodruff Narrows

193,300

26,000

Great Salt Lake. Utah Lake, one of the larger natural bodies of fresh water in the western Jordan River Drainage The 40-mile-long Jordan River connects Utah Lake with the counties, while the Spanish Fork River and its portions of Wasatch, Summit, and Utah margin of the Uinta Mountains and drains Provo River originates in the southwestern from the Provo and Spanish Fork rivers. The United States, receives much of its water tributaries drain portions of the southern into Utah Lake are Hobble Creek and Ameri-Wasatch Range. Other important drainages

Sevier, empties into Sevier Lake. Very little Sevier River Drainage One major river, the lake fills only intermittently. The Seven lake at the present time, and therefore the water from the Sevier actually reaches the

High Plateaus and has its headwater : River carries much of the runoff from

> tying into the Colorado. The Paria River within the southwest corner of the state that High Plateaus and flows into Arizona, meetflow southward out of the state before emp-High Plateaus. The Virgin River flows into National Park area on the south flank of the Pine Valley Mountains as well as the Zion Clara River and La Verkin Creek, drains the Virgin River system, along with the Santa ing the Colorado River at Lee's Ferry. The heads along the east and south margins of the joins the Colorado River at Lake Mead. Canyon before entering Nevada, where it Raft River Drainage A third indinage Arizona through the spectacular Virgin River

additional drainage systems are located

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system flowing out of Utah is a and in the courses drain the northern the contine Kar River and several additional northwest corner of the state Live the Kart Tally !